



GPO1 LAMINATE

Laminated Sheet made from layers of chopped strand glass matt, treated with Polyester Resin having high temperature index unto 155°C.

The material has high mechanical and electrical properties. It has a good mating and punching properties.

Sr. No.	Description	Units	Observed Values
PHYSICAL			
1	Specific Gravity	g/cm ³	1.8 ± 0.1
2	Water Absorption at 20°C for 24 hours	mg	22
3	Temperature Index	TI	155°C
4	UL Flammability	UL94	HB
MECHANICAL			
5	Flexural strength @ 23°C	Mpa	≥ 320
6	Flexural strength @ 155°C	Mpa	≥ 50%
7	Tensile strength	Mpa	≥ 250
8	Compressive Strength ⊥	Mpa	≥ 450
9	Compressive Strength ∥	Mpa	≥ 250
10	Charpy Impact Strength (IZod)	Kj/m ²	> 100
11	Volume Resistivity	Ohm.cm	0.125 x 10 ¹²
12	Surface Resistivity	Ohm	2.16 x 10 ¹²
ELECTRICAL			
13	Electric strength in oil 90 °C - perpendicular	Kv/mm	≥ 15
14	Breakdown Voltage at 90°C in oil parallel to laminate	Kv	≥ 35
15	Insulation resistance after immersion in water	M-Ohms	≥ 5x10 ⁷

